

IN THE CLAIMS:

The following is a listing of the pending claims.

1. (Previously Presented) A method, comprising:

detecting that a user equipment has requested a registration to a second serving controller using at least one of a plurality of identities in association with a first serving controller, the plurality of the identities being associated with respective registration statuses selected from a registered status and an unregistered status;

issuing a registration termination request identifying the at least one of the plurality of identities, which has been newly assigned to the second serving controller as a result of the requested registration; and

responsive to the registration termination request, issuing a re-registration notification to the user equipment including the at least one of the plurality of identities which has a registered status and which was not assigned to the second serving controller as a result of the requested registration, and disassociating all identities of the said user from the first serving controller.

2. (Previously Presented) A method according to claim 1, wherein disassociating all identities of the said user equipment from the first serving controller comprises removing

the all identities and their data from the first serving controller, and removing their association in the user information store with the first serving controller.

3. (Original) A method according to claim 1, wherein the plurality of identities include a set of unregistered statuses, and wherein the set is disassociated but not reassigned.

4. (Original) A method according to claim 1, wherein the registration termination request includes a deregistration reason.

5. (Previously Presented) A method according to claim 4, wherein the deregistration reason in a 3rd generation partnership project communication system comprises NEW_SERVER_ASSIGNED.

6. (Previously Presented) A method according to claim 1, wherein detecting that the user equipment has requested registration comprises receiving at the user information store an authentication request.

7. (Previously Presented) A method according to claim 1, wherein at least two user equipments have a shared identity and a non-shared identity and the method further comprises checking, when the non-shared identity has been newly assigned to the second

serving controller, whether the user equipment has the shared identity and, if so, issuing a re-registration notification to other user equipments sharing the shared identity.

8. (Previously Presented) A system, comprising:

a first serving controller;

a user information store configured to hold for a user a plurality of identities in association with the first serving controller, the plurality of identities being associated with respective registration statuses selected from a registered status and an unregistered status;

a second serving controller configured to transfer to the user information store a user authentication request identifying the user equipment; and wherein the user information store is configured to detect the user authentication request and to insert into a registration termination request issued to the first serving controller each identity of that user equipment, which was newly associated to the second serving controller as a result of the user authentication request, and wherein the first serving controller is configured, responsive to the registration termination request, to issue a re-registration notification to the user equipment including each identity which has a registered status and which was not assigned to the second serving controller as a result of the user authentication request, and disassociate all identities of the said user equipment from the first serving controller.

9. (Previously Presented) A system according to claim 8, wherein the user information store comprises a home subscriber server.

10. (Previously Presented) A system according to claim 8, wherein the serving controller comprises a call state control function.

11. (Previously Presented) A system according to claim 8, wherein the communications system is wireless.

12. (Previously Presented) A system according to claim 8, wherein said plurality of identities includes a shared identity which is associated with at least one other user equipment.

13. (Previously Presented) A system according to claim 12, wherein the first serving controller is operable to issue a re-registration notification to the at least one other user equipment.

14. (Previously Presented) An apparatus, comprising:

an interface configured to communicate with a user information store, wherein a plurality of identities, each with respective registration statuses, associate a user equipment with the apparatus and being configured, responsive to a registration

termination request received from the user information store, to issue a re-registration notification to the user equipment including each identity which has a registered status and which incorrectly associates the user equipment with the apparatus, and disassociate all identities of the said user equipment from the apparatus.

15. (Previously Presented) An apparatus according to claim 14, which is operable to disassociate all identities of the said user equipment by removing the identities and their data in the apparatus and by removing their association in the user information store.

16. (Previously Presented) An apparatus according to claim 14, which is operable to read a deregistration reason in the registration termination request.

17. (Previously Presented) An apparatus according to claim 14, which is operable to issue a re-registration notification to any other user equipments sharing one of the said identities.

18. (Previously Presented) A system, comprising:

storing means for storing in a user information store a plurality of identities in association with a first serving controller, the plurality of identities being associated with respective registration statuses selected from a registered status and an unregistered status;

detecting means for detecting that a user equipment has requested a registration to a second serving controller using at least one of said plurality of identities;

issuing means for issuing a registration termination request identifying the at least one of the plurality of identities, which has been newly assigned to the second serving controller as a result of the requested registration;

notification means for issuing a re-registration notification to the user equipment including the at least one of the plurality of identities which has a registered status and which was not assigned to the second serving controller as a result of the requested registration; and

disassociating means for disassociating all identities of the said user equipment from the first serving controller,

wherein the notification and disassociating means are responsive to the registration termination request.

19. (Original) A system according to claim 18, wherein the disassociating means comprises removing means for removing the all identities and their data from the first serving controller, and removing their association in the user information store with the first serving controller.

20. (Original) A system according to claim 18, wherein the plurality of identities include a set of unregistered statuses, and wherein the set is disassociated but not reassigned.

21. (Original) A system according to claim 18, wherein the detecting means comprises receiving means for receiving at the user information store an authentication request.

22. (Previously Presented) A system according to claim 18, wherein at least two user equipments have a shared identity and a non-shared identity and the system further comprises checking means for checking, when the non-shared identity has been newly assigned to the second serving controller, whether the user equipment has the shared identity and, if so, the notification means is configured to issue a re-registration notification to other user equipments sharing the shared identity.

23. (Previously Presented) A computer-readable medium encoded with instructions that, when executed on a computer, perform a process, the process comprising:

detecting that a user equipment has requested a registration to a second serving controller using at least one of a plurality of identities in association with a first serving controller, the plurality of the identities being associated with respective registration statuses selected from a registered status and an unregistered status;

issuing a registration termination request identifying the at least one of the plurality of identities, which has been newly assigned to the second serving controller as a result of the requested registration; and

responsive to the registration termination request, issuing a re-registration notification to the user equipment including the at least one of the plurality of identities which has a registered status and which was not assigned to the second serving controller as a result of the requested registration, and disassociating all identities of the said user from the first serving controller.